'Unis is the fifth part of a review of notes in which we compute expression relevant for the modified Catoon reduction of the!
equations of notion.
In this note we calculate the expansion
of the energy-momentum tensor Tab of a red scalar field and

[6] its too-revered from Tanon the hyperfact at 226, who to. Other experiors for scalar, vector and (2) tensor densities at S can be obtained from the experiors of APVENDIX A of 1603,00362 or eq. (27)-(31) of 2004.4976, by treating the t lood just like one of the xi loods. There expensions tell us Alat all tensoral objects and this desirations with an odd number of indias anocated with we cools vanish. In fasticular, this is given in APIBNOIX A for rolar, redors and (o) tensors. In the following, we see this in particular for TAB.

the every-momentum tenson is  $T_{AB} = \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right) + \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right) \right)$ and the energy-nomentum in trace-reversel form unth comological content 1 is  $\frac{1}{AB} = \frac{2}{D-2} \wedge 9_{AB} + 8 i \left( \frac{1}{AB} - \frac{1}{D-2} + 9_{AB} \right)$ whee T=gAB+10) AB To the trace of TAB. Use He experiors of APPENDIX A of 1603-00362, we find the expersion of the qualities at s.

Lets stat from Trs. (ASE (A,B) = (a,b) $T^{(b)}_{ab} = \partial_a \psi \partial_b \psi + \partial_{ab} \left[ -\frac{1}{2} \partial_a \psi \partial_b \psi - \frac{1}{2} \partial_a \psi \partial_b \psi - \frac{1}{2} \partial_a \psi \partial_b \psi \partial_b \psi \right]$   $-\frac{1}{2} \partial_a \psi \partial_b \psi + \partial_a \psi \partial_b \psi \partial_b$  $= \int_{a} \left( \int_{b} \int_{b} + \int_{ab} \left( -\int_{c} \int_{c} \int_{c$ The late of the same from as the late of the same from as the late of the same from as the late of the

$$(ASF (AB)=(ap),$$
From A. Fof 1603 603,62,
$$T^{(0)}_{ap}=0$$

$$(ASF (AB)=(pq),$$

$$T^{(0)}_{ap}=0$$

$$(ASF (AB)=(pq),$$

$$T^{(0)}_{ap}=1$$

$$T^{(0)}_{a$$

unha va dofinet  $T_{ww} = 3_{ww} \left( -\frac{1}{2} 3^{ab} + \frac{1}{2} m^{2} + \frac{1}{2} m^{2} \right)$ Let now founder

TE gABT(D)

AB = gab T(b) + g Pq T(D)

Pq = gab + (d) + Spg Jww Spg Jww = T(d) + N gww T ww =  $= T^{(d)} - Y \left( 3^{ab} \right)_{a} + b + m^{2} + 2$ 

Finally, we study
$$T(b)$$

$$ASF (A_1B) = (a_1b)$$

$$T(ab) = \frac{2}{D-2} A_{9ab} + 811 \left(T(ab) - \frac{1}{D-2} A_{9ab}\right)$$

$$= \frac{2}{D-2} A_{9ab} + 811 \left(T(ab) - \frac{1}{D-2} A_{9ab}\right) + 811 \left(T(ab) - \frac{1}{D-2} A_{9ab}\right)$$

$$\begin{array}{l}
(ASE (AB) = (ap) \\
T (ap) = 0 \\
(ASE (AB) = (p,q) \\
T (pq) = 2 Aspq + 811 (Top - 1 Top spq) \\
= Spq \left( \frac{2}{D-2} Aspq + 811 (Top - 1 span (Top spq)) \right) \\
= Spq \left( \frac{2}{D-2} Aspq + 811 (Top - 1 span (Top spq)) \right)$$

- > pq + ww ,

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